Factors Versus Multiples

1. **a.** List 10 multiples of 6 that are less than 100.

   b. List 10 multiples of 15 that are less than 200.

   c. List 5 multiples of 250 that are greater than 1,200.

2. **a**. What is the biggest multiple of 4 that is less than 100?

   b. What is the smallest multiple of 100 that is more than 1000?

3. Fill in with the words "multiple(s)" or "factor(s)".

   >> 25, 50, 75, 100, 125, and 150 are _____ of 25.

   >> 1, 2, 5, 10, 25, and 50 are _____ of 50.

   >> Each number has an infinite number of _____.

   >> Each number has a greatest _____.

   >> If a number x divides into another number y, we say x is a _____ of y.

4. **a.** Draw a line from each number to the correct box.
   b. Which number is a "*black sheep*"? (Neither a factor nor a multiple of 24.)
   c. Which number is BOTH a factor and a multiple of 24?

240 8 48 4 96 24 1 2

a factor of 24	a multiple of 24

120 3 30 72 144 6 12

5. Find all the factors of the given numbers.

   a. 26 **b.** 32

   c. 40 **d.** 50

6. **a.** Find five numbers that are multiples of both 10 and 3.

   b. Find five numbers that are multiples of both 6 and 9.

   c. Find five numbers that are multiples of both 4 and 7.

   d. Find five numbers that are multiples of both 8 and 12.

7. 24 is divisible by 1, 2, 3, 4, 6, 8, 12, and 24 - that is, it has 8 divisors!
   Find a number that has even more divisors (it has 9 divisors) and is less than 40.

8. Explain the words with the help of examples.

   dividend _____

   quotient _____

   factor _____